RajaRajeswari College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Artificial Intelligence & Machine Learning

SEP 2022 – MAR 2023

NEWS LETTER - ಸುದ್ದಿಪತ್ರ

The Department of Artificial Intelligence and Machine Learning (**AI & ML**) at RRCE was established in the year 2020. The Department offers B.E (AI & ML) Undergraduate program and with an intake of 60 students and the Department is affiliated to Visvesvaraya Technological University, Belagavi, Karnataka and approved by AICTE, New Delhi.

Artificial Intelligence and Machine Learning (AL & ML) appear for the next industrial revolution happening in the world today. Artificial Intelligence has been utilized in various fields.

Artificial Intelligence emphasizes the development of intelligent machines which think and work like humans. Machine Learning (ML) is a subset of Artificial Intelligence. ML is the science of designing and applying algorithms that are able to learn things from past cases.

AI and ML are integral parts of data science, where techniques from both such as regression, projecting analytics and more are applied for coming generation.

Tag Line: Artificial Intelligence and Machine learning (**AI & ML**) is impacting the business world in a big way and become ultimate in the digital

Editorial Board

Dr. Rajesh K S

Prof. & HOD

Prof. Mamatha K R
Assistant Professor

VISION

To bring out the competent and socially responsible Engineers in the field of AI & ML education, research and innovation.

MISSION

- To Inculcate, the integration process of concepts in AI & ML domain.
- To equip AI & ML graduates with skills to meet Industry and Societal challenges by skill enhanced training.
- To promote Research and ethical culture through interaction for broader application in AIML domain.

PROGRAM SPECIFIC OUTCOMES (PSOs) :

The AIML graduates will have the ability to:

PSO1: Design and develop AI & ML Solution, through modern engineering tools and Programming Language, Technical skills in presenting modern insights.

PSO2: Ability to adapt continues changing AI & ML domain for innovative challenges.

PROGRAM EDUCATIONAL OBJECTS (PEOs)

PE0 1: Develop competent profession in the field of Artificial Intelligence and Machine Learning towards advanced skills in solving contemporary problems

PE0 2: Pursue their professional on technical and progress towards Research and Entrepreneurship.

PE0 3: Progress as skilled in team and adapting leadership qualities and ethical values as per the society

**Awareness Program On Self Learning &
Skill Development**

Chief Guest Person: **Mr. Kamlesh**
[CEO ,Sookshmas e learning Pvt Ltd]
Mr.Karthik M.N
Developer and Academic Head at
SOOKSHMAS]

Event Date: 18th Nov 2022

The event started with the formal Inaugural
function **and resource person** KARTHIK,
SOOKSHMAS TECHNOLOGY

- Students will be able to practice acquired knowledge within the chosen area of technology for development to Identify the issues and challenges of industry.
- Inspires the curiosity and motivate further discovery
- Self learning helps to develop problem solving skills
- Self learning is process where individuals take primary charge of planning continuing and evaluating their learning
- Skill development is used to refer to the productive capabilities acquired through all levels of learning ant training on job setting

Career Guidance Program

Resource Person : Mr. Vinay Raj, Bangalore Academy
event : 21/11/2022

the program is to provide information on various occupations within an industry; help students identify their interests and strengths; expose them to a diverse range of opportunities to build experience and clarity about their goals; and empower them to pursue internships, jobs and leadership experiences they find personally meaningful.

CARRER DEVELOPMENT ON CLOUD COMPUTING

Chief Guest Person and resource person: **VEERABHADRA B**
Date : 11th Dec 2022
Cloud computing is a system of databases and software, typically operated in data centres and warehouses. It enables users and businesses to access digital information over the internet from anywhere, rather than having physical servers. Different opportunities present in the field of cloud computing. Various clouds available and how people use cloud in this socio-economic world.

Bengaluru,KA,India
NH 275, Kumbalagodu, Bengaluru, 560074, KA, India
Lat 12.885850, Long 77.450081
12/06/2022 11:06 AM GMT+05:30
Note : Captured by GPS Map Camera

Bengaluru, Karnataka, India
Rajrajeswari College Of Engineering College Block, Rajrajeswari College Of Engineering, Bengaluru, Karnataka 560074, India
Lat 12.88626°
Long 77.449716°
06/12/22 11:01 AM GMT +05:30

Bengaluru, Karnataka, India
Rajrajeswari College Of Engineering College Block, Rajrajeswari College Of Engineering, Bengaluru, Karnataka 560074, India
Lat 12.886256°
Long 77.449734°
06/12/22 11:35 AM GMT +05:30

Bengaluru, Karnataka, India
Rajrajeswari College Of Engineering College Block, Rajrajeswari College Of Engineering, Bengaluru, Karnataka 560074, India
Lat 12.886258°
Long 77.449737°
06/12/22 11:00 AM GMT +05:30

Robotics workshop

Resource Person: Roopa Mahadev, Accurate info solution
Date of the event: 27/12/2022 to 31/12/2022

The event started with the formal Inaugural function at 9.30a.m in Abdul Kalam Conference Hall. On the dais Our Chief Roopa Mahadev, Accurate info solution,- BENGALURU, Dr Balakrishna R Principal, RRCE, Dr. Amuthraj Vice Principal, RRCE. Dr. Rajesh K S HoD AI & ML. The function started with Invocation Song, followed by the welcome speech , followed by presidential address given by Principal, vice principal and Hod. Inspiring speech regarding the future opportunities for engineering students was given by Roopa Mahadev resource person ,. Vote of thanks was given by the student.

Day 1: Introduction about robots, Arduino boards, knowledge on microcontroller and Knowledge on

microcontroller and different types of circuit boards. Connecting the parts of robots.

Day 2: Working on the software and hardware parts of robots. Working with coding part of traffic lights. Programing and coding for traffic lights with different settings. Working with Arduino boards

Day 3: Introduction of different parts of robots. Introducing wheel robots. Connecting the different parts in robots. Working with hardware. Programming and coding for the robots. Uploading the program and code to the robot working with the robot.

Day 4: Making to work the robot in different methods concept of data reading it.
Line robot.,Working with the Square and triangle robot,Circle robots.

Day 5: Projects on IOT connecting with robot.

Soil Moisture Sensor	Speed detector
Fire Detection	Smart Feeder
Air pollution	Visitor count
Gas leakage detection	Smart jar
Rainfall detection	Telegram controlled home automation
Sound Recording in decibel	Smart Street Light
Motion Sensor	Traffic Light
Bugler alarm	

Introducing the different type of circuit board with sensors and bazars. These are all connecting to circuit board with wires. Programming the done on software and uploaded to the circuit board..

Outcome of the program is to provide information on various robots and coding; help students identify their interests and strengths; expose them to a diverse range of opportunities to build experience and clarity about their goals; and empower them to pursue internships, jobs, and leadership experiences they find personally meaningful.

Industrial Visit

Visited to M/s Bharath Arts and Crafts, Channapatna, Ramanagara (Dt) onWednesday, 18th January 2023 with respect to the SOCIAL CONNECT&RESPONSIBILITIES.''

Event Date: 18-01-2023

Understanding the legacy of channapatna toys making. Comparison of modernand traditional manufacturing process.Knowledge about the CNC Machines and tools that were used to make toys.Knowledge about the software called Corel Draw to design the product to carry out the operation. Knowledge about the different kinds of woods and other materials used in the process of making toys.

TALENT EXPOSITION PROGRAM

Event Date : 7 FEB 2023

The event started with the formal Inaugural function at 12.45 pm in Abdul Kalam Conference Hall. The function started with Invocation Song, followed by the welcome speech HOD, and Vote of thanks was given by the student.

Dr. Rajesh K S HoD AI & ML brief about introduction of AI, application , types of AI and carrer opportunities ,Introduction to Artificial Intelligence , Application and types of of the Artificial Intelligence , First year students expressing their Talent ,Cultural Activity performed by the students.

International Technical Seminar on Artificial Intelligence.

Resource Person :   Prof. Ian Wakeman
                    Professor, Department of
                    Informatics University Of Sussex
Date of the event   :   28/02/2023

Resource Person expressed about Introduction to AI Main types of Artificial Intelligence. Key Benefits of AI for Business. Current trends of Artificial. Intelligence. Virtual Agent in Artificial Intelligence. Robotic Process Automation.

International Technical Seminar on IoT

Resource Person   : Prof. Stefan Posland, Professor, School of Electronics Engineering and Computer Science Queen Mary University of London
Date of the event   : 02/03/2023
Reseorce person briefed about Introduction to IoT, IoT Lab ,Features of IoT, Applications of IoT in :Smart Cities, Smart Homes ,Smart Agriculture , Smart Transportation Smart Healthcare, Interactive Piano in staircase.